

FIG. 1A-1  
FIG. 1A-2

FIG. 1A

GAATTCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAAGCTAGCAGCAAACC 39 (UPPER: SEQ ID NO.: 1)  
19 (LOWER: SEQ ID NO.: 4)

TTCCCTTCACTACAAACTTCAATTGCTTGGCCAAAAAGAGAGTTAATTCAATGTAGACAT 119  
39

CTATGTAGGCAATTAAAAACCTATTGATGTATAAACAGTTGCATTCAATGGAGGGCAAC 179  
59

TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATTGACAGGGTGGAAACAAG 239  
79

ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATACTCGGAGCCCTGC 299  
M D Y Q V S S P I Y D I N Y T S E P C 99

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FIG. 1A-1

CAAAAAATCAATGAGCAAATGCCAGCCCCCTCCCTGCCCTCCCTGCTCTACTACTGGTG 359  
 Q K I N V K Q I A A R L L P P L Y S L V 119  
  
 TTCAATCTTGGTTGGCAACATGCTGGTCATCCTCATCTGATAAACTGCAAAGG 419  
 F I F G F V G N M L V I L I L I N C K R 139  
  
 CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCTCATCTGACTCTGTTTCCTT 479  
 L K S M T D I Y L L N L A I S D L F F L 159  
  
 CTTACTGCCCCCTCTGGGCTCACTATGCTGCCGCCAGTGGACTTGGAAATACAATG 539  
 L T V P F W A H Y A A Q W D F G N T M 179  
  
 TGTCAACTCTTGACAGGGCTCTATTATAGGCTTCCTCTGGAAATCTTCATCATC 599  
 C Q L L T G L Y F I G F S G I F F I I 199  
  
 CTCCTGACAATCGATAGGTACCTGGCTGCTCCATGCTGTGTTGGCTTAAAGCCAGG 659  
 L L T I D R Y L A V V H A V F A L K A R 219  
  
 ACGGTCACTTGGGGTGGTACAAGTGTGATCACTGGTGGCTGGCTGTGTTGGCTCT 719  
 T V T F G V V T S V I T W V V A V F A S 239  
  
 CTCCCAGGAATCATCTTACCAAGATCTCAAAAGAAGGTCTTCATTACACCTGCAGCTCT 779  
 L P G I I F T R S Q K E G L H Y T C S S 259  
  
 CATTTCATACA  
 H F P Y

FIG. 1A-2

FIG. 1B-1
FIG. 1B-2

FIG. 1B

GAATTCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAAGCTAGCAGCAAACC 59 (UPPER: SEQ ID NO.: 2)  
 19 (LOWER: SEQ ID NO.: 5)

TTCCCTTCACTACAAACTCATTGCTTGGCAAAAAGAGAGTTAATTCAATGTAGACAT 119  
 39

CTATGTAGGCAATTAAAACCTATTGATGTATAAACAGTTGCATTCATGGAGGGCAAC 179  
 59

TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGCACAGGGTGGAAACAAG 239  
 79

ATGGATTATCAAGTGTCAAGTCCAATCTATGACATTAATTATACTCGGAGGCCCTGC 299  
 M D Y Q V S S P I Y D I N Y T S E P C 99

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FIG. 1B-1

CAAAATCAATGTGAAGCAAATGCCAGCCCCCTCCCTGCCCTACTGCGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTCATCTTGGCAACATGCTGGTCAATCCTCATCCTGATAACTGCAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
CTGAAGGCAATGACTGACATCTACCTGCTAACCTGGCCATCTGACCTGTTCCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
CTTACTGTCCCCCTCTGGCTCACTATGCTGCCGCCAGGGACTTTGAAATACATG	539
L T V P F W A H Y A A Q W D F G N T M	179
TGTCAACTCTGACAGGGCTCTATTATAGGCTTCTGGAAATCTTCATCATC	599
C Q L L T G L Y F I G F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTCGTCCATGCTGTGGTTAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCAACCTTGGGTGGTGACAAAGTGTGATCACTGGGTGGCTGTGGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCAGGAATCATCTTACAGATCTCAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTCACAGTCAATTCTGAAAGAATTCCAGACATTAAGATAAGTCATC	839
H F P Y S Q Y Q F W K N F Q T L K I V I	279

FIG. 1B-2

TTGGGGCTGGTCCCTGCCGCTGCTTCATGGTCATCTGCTACTCGGAAATCCTAAACT	899
L G L V L P L V M V I C Y S G I L K T	299
CTGCTTCGGTGTGAAATGAGAAGGACAGGCCACAGGGCTGTGAGGCTTATCTTACCCATC	959
L L R C R N E K R H R A V R L I F T I	319
ATGATTGGTTATTTCCTCTCTGGCTCCCTACAACATTGGCTTCTGAAACACCTTC	1019
M I V Y F L F W A P Y N I V L L N T F	339
CAGGAATTCTTGGCCTGAAATAATGGAGTAGCTCTAACAGGGTGGACCAAGCTATGCAG	1079
Q E F F G L N N C S S N R L D Q A M Q	359
GTGACAGAGACTCTGGGATGACGGCACTGCTGCATCAACCCCATCATCTATGCCTTGTGTC	1139
V T E T L G M T H C C I N P I I Y A F V	379
GGGGAGAAGTTCAGAAACTACCTCTTAGTCTCTTCCAAAGGCACATGCCAACGCTTC	1199
G E K F R N Y L L V F F Q K H I A K R F	399
TGCAATGCTGTCTATTTCAGCAAGAGGCTCCCGAGGGCAAGGCTCAGTTACACC	1259
C K C C S I F Q Q E A P E R A S S V Y T	419
CGATCCACTGGGAGGCAATAATCTGGCTTGTGACACGGACTCAAGTGGCTGTGT	1319
R S T G E Q E I S V G L *	439
GACCCAGCTGAGCTGTGACATGGCTTAGTTTACACAGCCTGGCTGGGTNGG	1379
TTGGNNAGGTCCTTTAAAGGAAGTTAATCTGTTAGAGGGTCTAAGATTCCATT	459
TATTGGCATCTGTTAAAGTAGATTCCGAATT	1439
	479

FIG. 1B-3

FIG. 1D-1

FIG. 1D-2

FIG. 1D

GAATTCCCCAACAGAGCCAAAGCTCTCCATCTAGTGACAGGGTAGGAAACC 59 (UPPER: SEQ ID NO. 3)  
19 (LOWER: SEQ ID NO. 6)

TTCCTTCACTACAAACTCATGGCTGGCCAAAAGAGAGTTAATTCAATGTAGACAT 119  
39

CTATGTAGGCAATTAAAACCTTATTGATGTATAAAACAGTTGCAATTGAGGGCAAC 179  
59

TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTATGGCACAGGGTGGAAACAAG 239  
79

ATGGATTATCAAGTGTCAAGGCCAATCTATGACATCAATTATACATGGAGCCCTGCG 299  
MDYQVSSPISYDINYSITSEPC 99

FIG. 1D-1

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CAAAATCAATGTGAAGCAAATCGCAGCCCCCTCTGCCCTCCGCTCTACTCACTGGTG 359  
Q K I N V K Q I A A R L L P P L Y S L V 119

TTCACTCTTGGTTTGTGGCAACATGGTCAATCCTCATCCCTGATAAACTGCAAAGG 419  
F I F G F V G N M L V I L I L I N C K R 139

CTGAAGGAGCATGACTGACATCTAACCTGGCTAACCTGGCCATCTCTGACCTGTTTCCCT 479  
L K S M T D I Y L L N L A I S D L F F L 159

CTTACTGTCCCCCTCTGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATAACAATG 539  
L T V P F W A H Y A A Q W D F G N T M 179

TGTCAACTCTTGACAGGGCTCTATTATAGGCTTCTCTCTGGAAATCTTCTCATCATC 599  
C Q L L T G L Y F I G F S G I F F I I 199

CTCCTGACAATCGTAGGTACCTGGCTCGTCCATGCTGTGTTGGCTTAAAGCCAGG 659  
L L T I D R Y L A V V H A V F A L K A R 219

ACGGTCACCTTGGGTGGTGAACAAAGTGTGATCACTGGGTGGCTGTGTTGGCT 719  
T V T F G V V T S V I T W V V A V F A S 239

CTCCAGGAATCATCTTACCAAGATCTGGGTGGTCTTCATTACACCTGGAGCTCT 779  
L P G I I F T R S Q K E G L H Y T C S S 259

CATTTCCATACATTAAGATAAGTCATCTGGGCTCTGGGGCTGGCTGCTGTGATGTT 839  
H F P Y I K D S H L G A G P A A C H G 279

FIG. 1D-2

CATCTGGCTACTCGGGAAATCCTAAAAACTCTGGCTTCGGTGTGAAATGAGAAAGAGGGCA	899
H L L G N P K N S A S V S K *	299
CAGGGCTGTGAGGGCTATCTTACCCATCATGATTGTTATTCTCTCTGGCTCCCTA	959
	319
CAACATTGTCCTTCTCGAACACCTTCCAGGAATTCTTGGCTGAATAATTGAGTAG	1019
	339
CCTCTAACAGGTTGACCAAGCTATGCAGGTGACAGAGACTCTGGGATGACGGCACTGCTG	1079
	359
CATCAACCCATCATCTATGCCTTGTGGGGAGAAGTTCAAGAAACTACCTCTTAGTCTT	1139
	379
CTTCCAAAGCACATTGCCAACACGCTTCTGCAAATGCTGTTCTATTTCAGCAAGAGGC	1199
	399
TCCCGAGGAGGAAAGCTCAGTTACACCCGATCCACTGGGGAGGCAAGAAATATCTGTGGG	1259
	419
CTTGTGACACGGACTCAAGTGGGCTGGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT	1319
	439
TTCATAACACAGCCTGGGCTGGGTNGGTGNGAGGTCTTTTAAAGGAAGTTACT	1379
	459
GTTATAGGGCTAAGATTCATCCATTGGCATCTGTTAAAGTAGATTAGATCC	1439
	479
GAATTG	

FIG. 1D-3

These were made out of wood and had two heads.

FIG. 2A

FIG. 2B

FIG. 2

Figure 2 displays a multiple sequence alignment of CCR5 and four human CCR-R variants (hCCR-R2b, hCCR-R3, hCCR-R1, hCCR-R4). The alignment is organized into five panels (I, II, III, IV, V) separated by vertical lines. A vertical arrow on the left points downwards through the panels, and a vertical arrow on the right points upwards through the panels. A horizontal arrow at the bottom points from left to right through the panels. A legend at the top right identifies the sequences: CCR5 (grey), hCCR-R2b (light blue), hCCR-R3 (light green), hCCR-R1 (light red), and hCCR-R4 (light orange). The alignment shows high conservation between CCR5 and hCCR-R2b, with significant divergence in the hCCR-R3, hCCR-R1, and hCCR-R4 variants, particularly in the C-terminal region (Panel III) and the CCR5-specific region (Panel IV). The hCCR-R variants show a high degree of similarity to each other.

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FIG. 2A

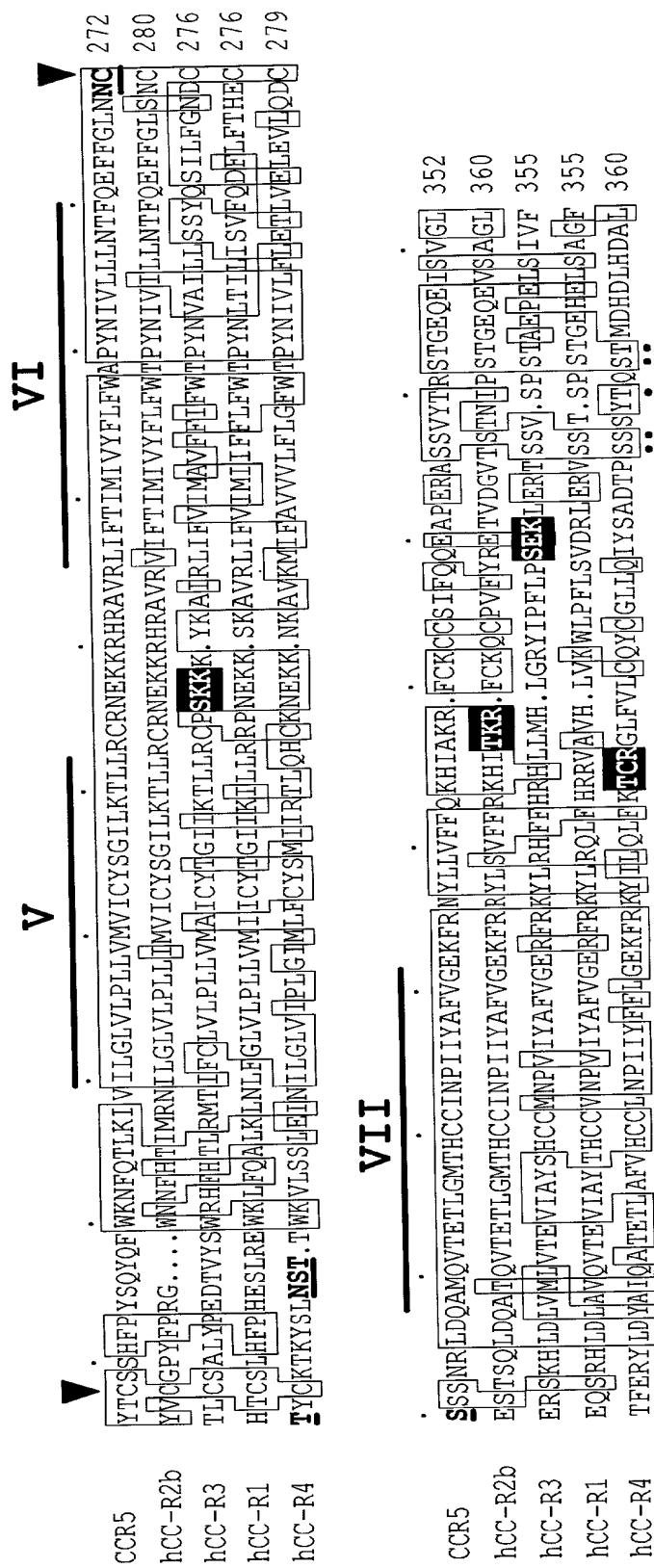


FIG. 2B

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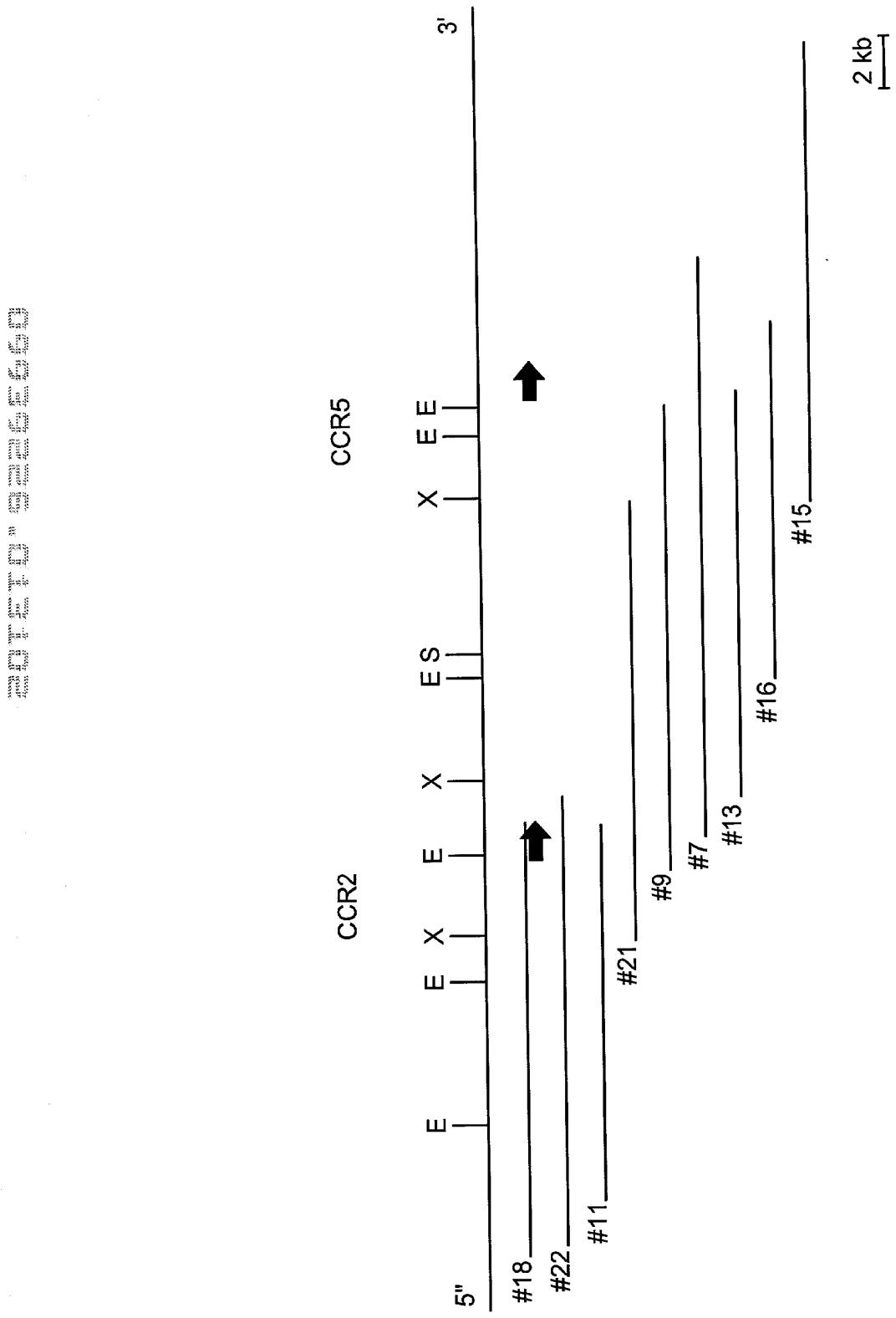


FIG. 3

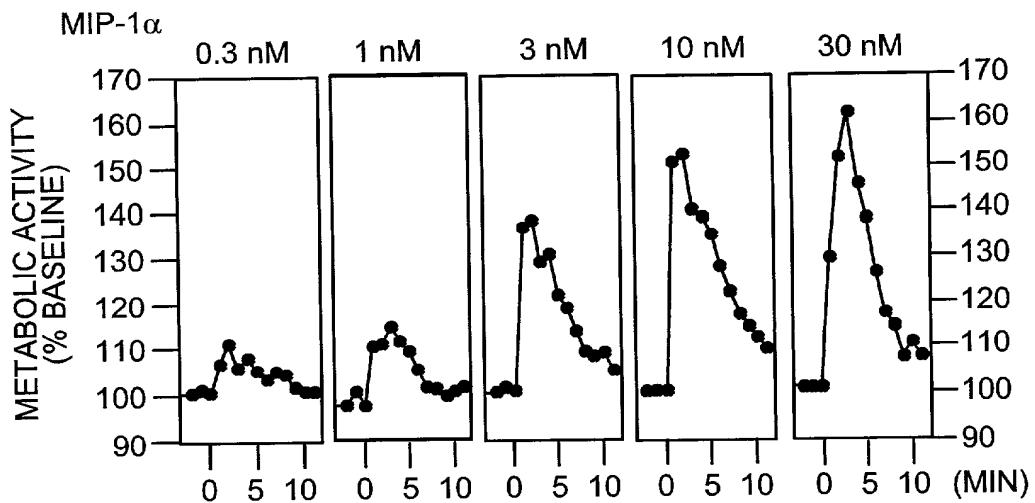


FIG. 4A

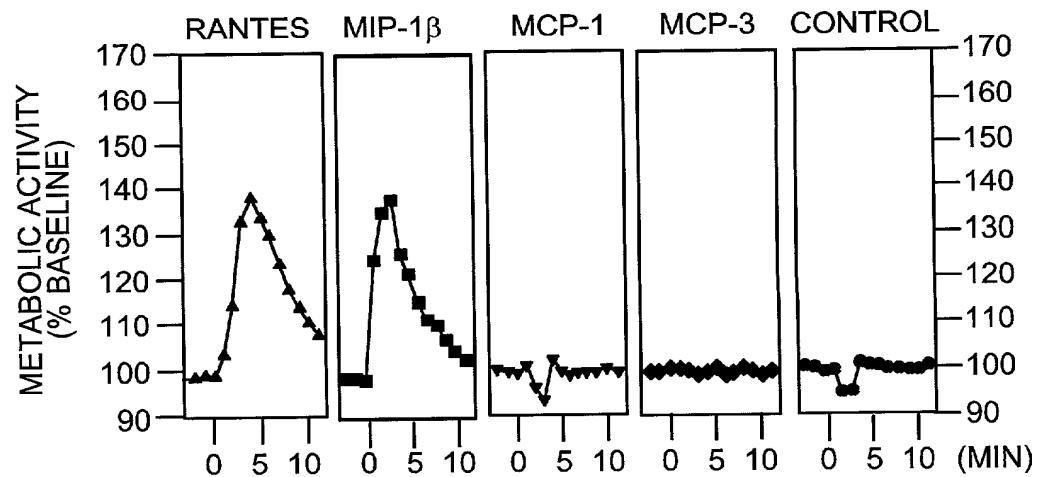


FIG. 4B

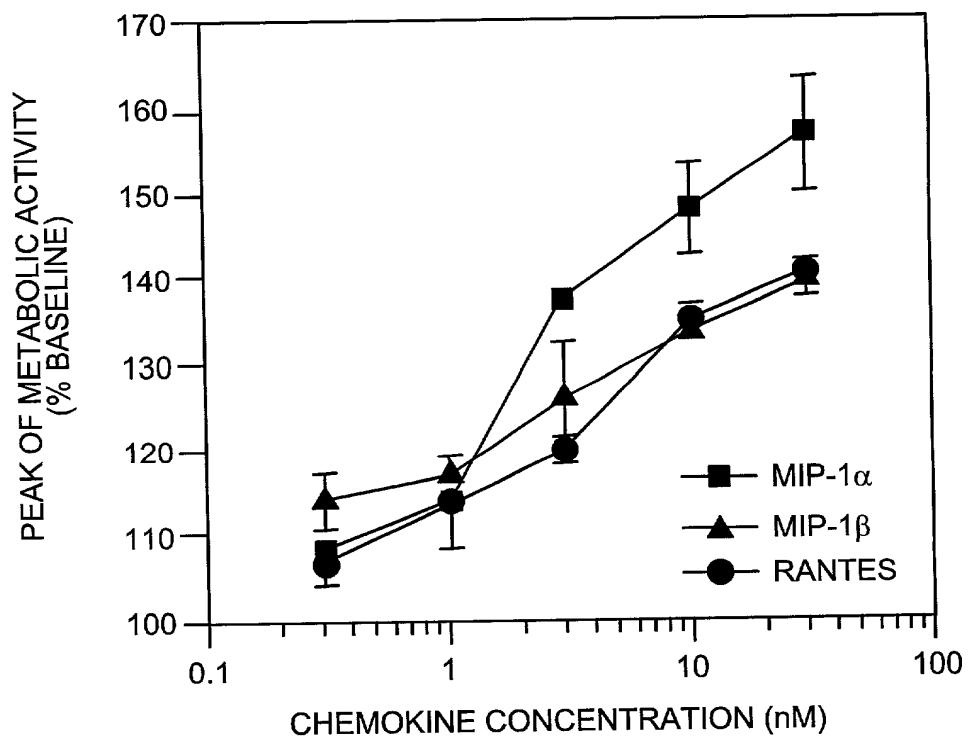


FIG. 4C

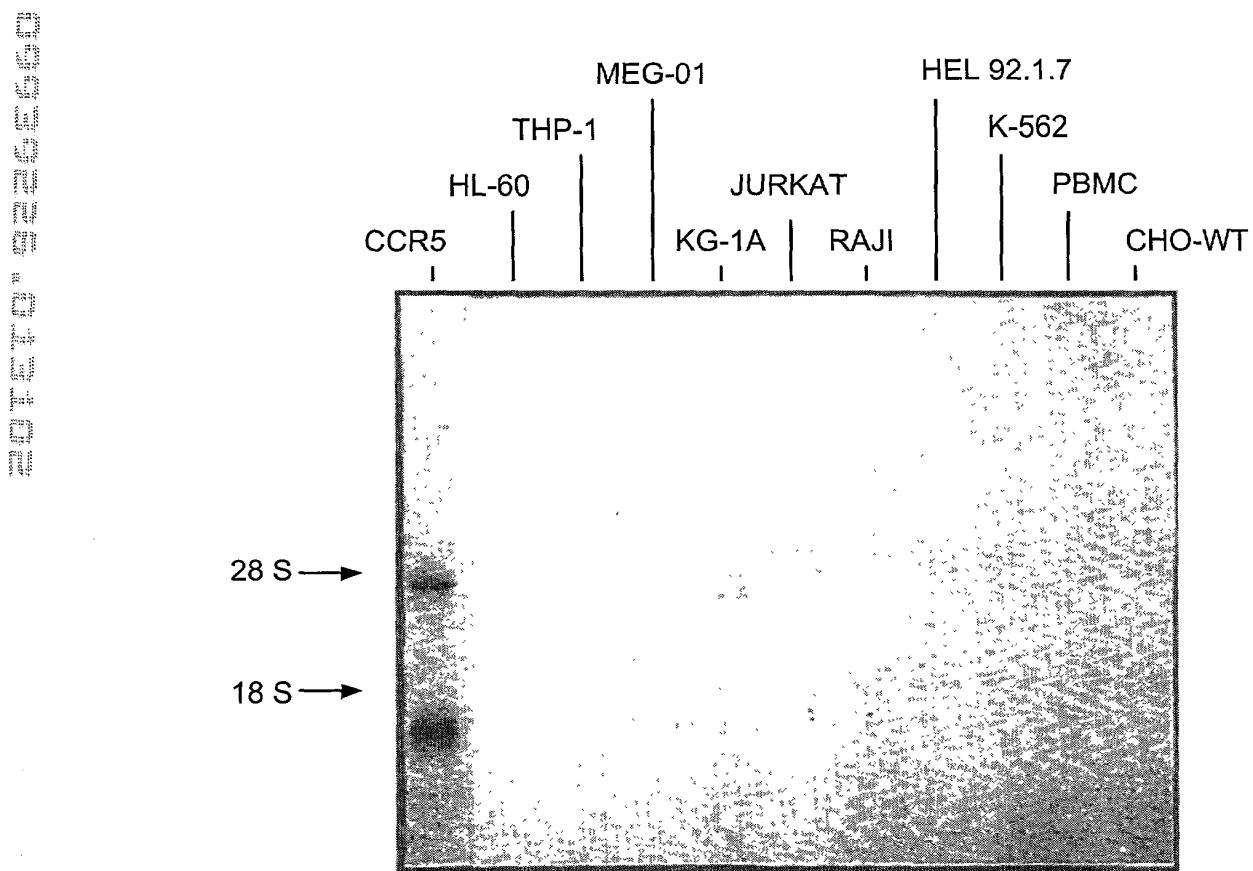


FIG. 5

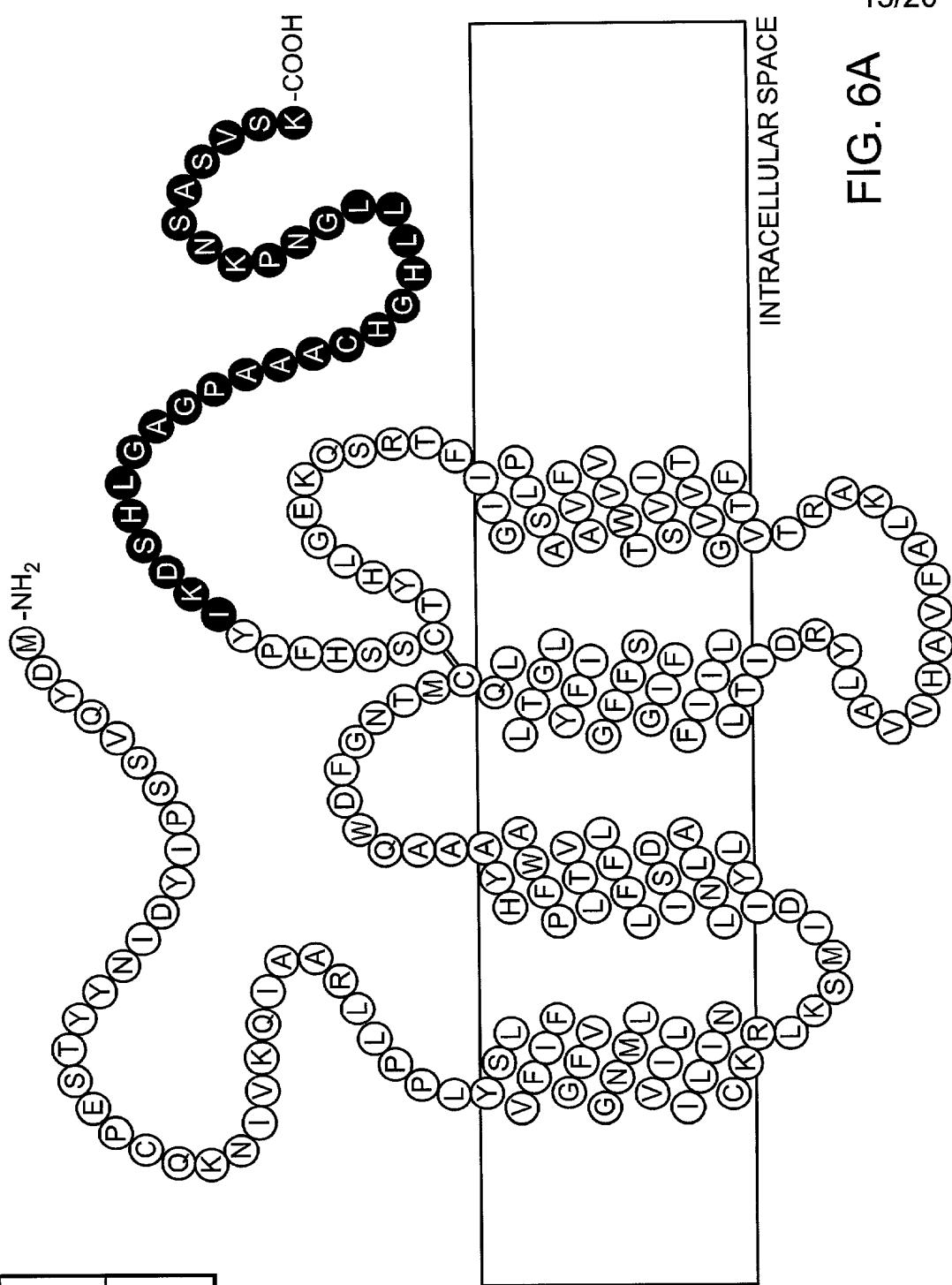


FIG. 6A

FIG. 6B

FIG. 6

FIG. 6A

CCR5 F P Y S Q Y Q F W K N F Q T L K I V I L G L V L P  
TTTCCATACAGtcagtatcaattctggaaattttccagacatTTAAAGATAAGTCATCTGGGCTGGTCCCTGGCG  
 Δccr5 F P Y

deletion

CCR5 L L V M V I C Y S G I L K T L L R C R N E K K R  
 CTGCTTGTCAATGGTCAATCTGGCTACTCGGAAATCCTAAAAACTCTGGCTGGTGTGCTGGAAATGAGAAGAAGAGG  
 Δccr5 A A C H G H L L G N P K N S A S V S K \*

FIG. 6B

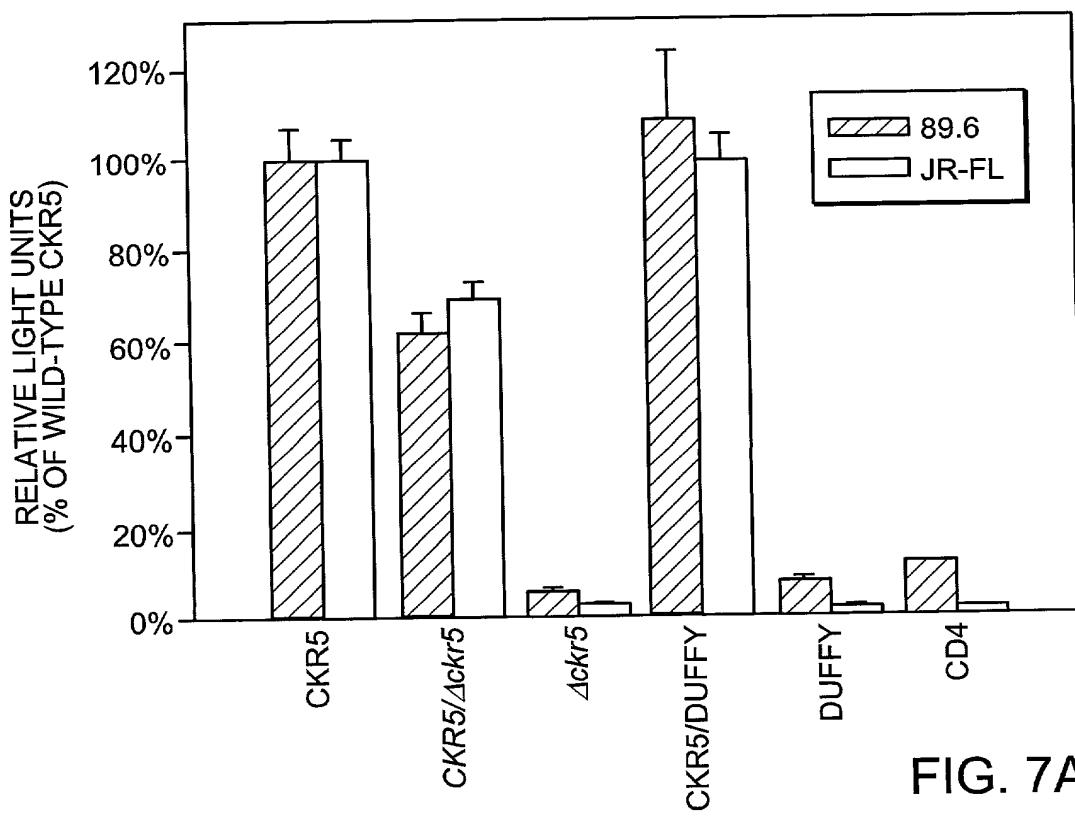


FIG. 7A

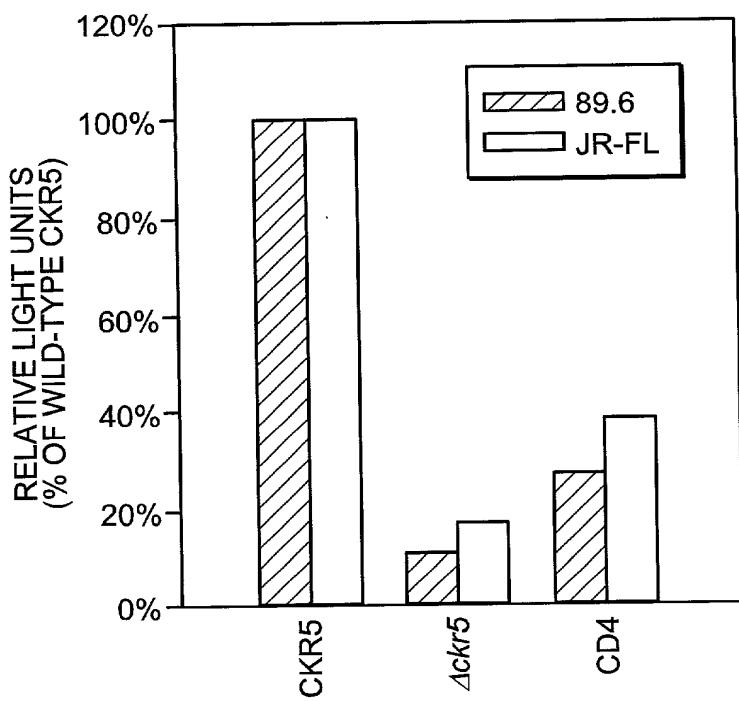


FIG. 7B

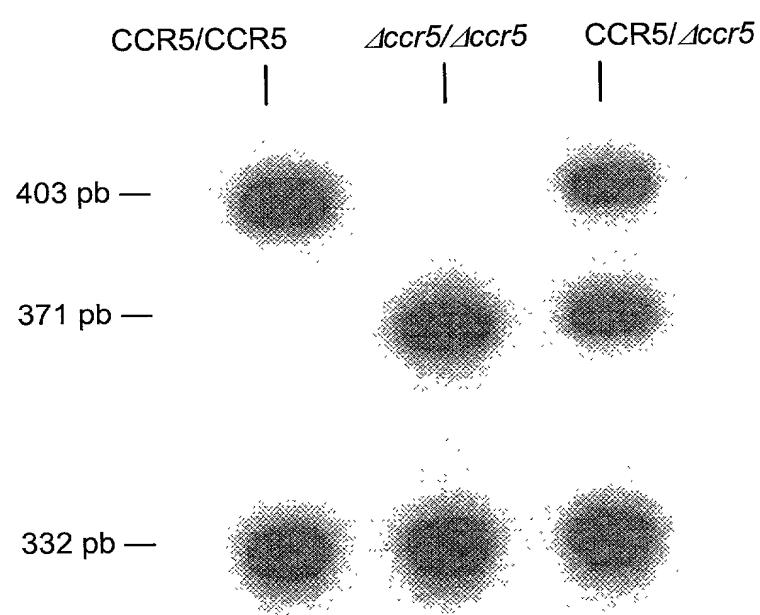


FIG. 8

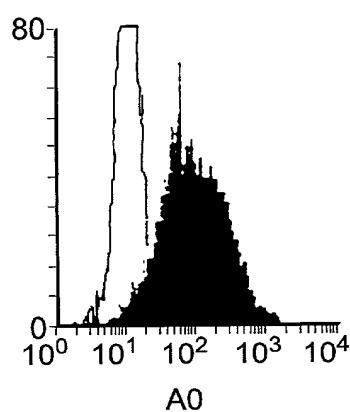


FIG. 9A

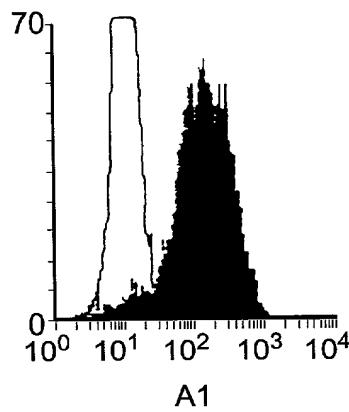


FIG. 9B

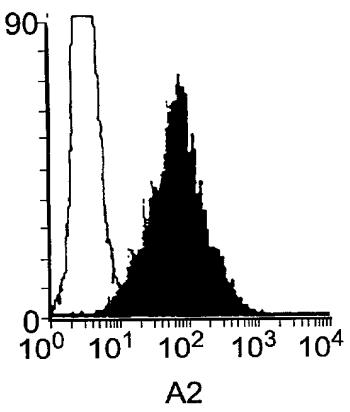


FIG. 9C

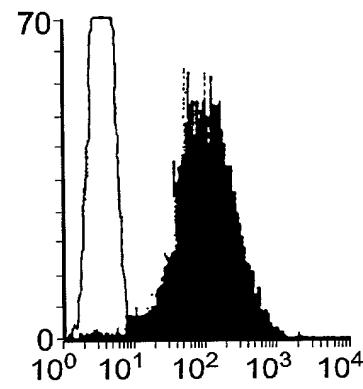


FIG. 9D

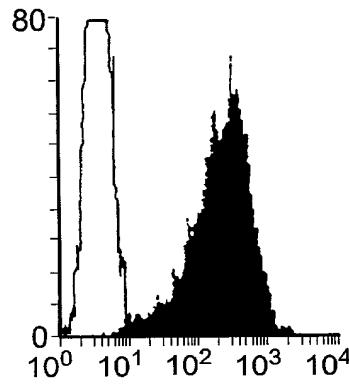


FIG. 9E

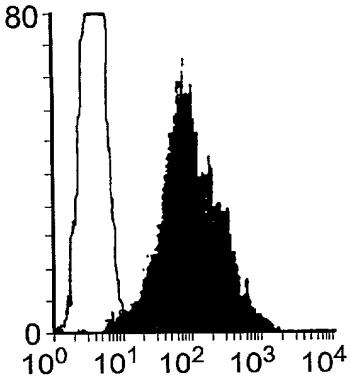


FIG. 9F

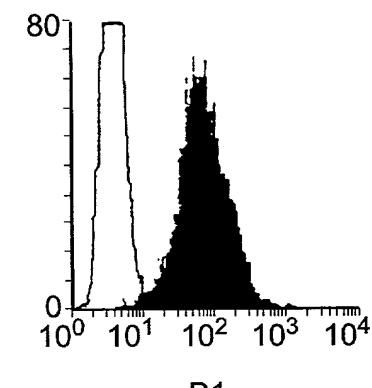


FIG. 9G

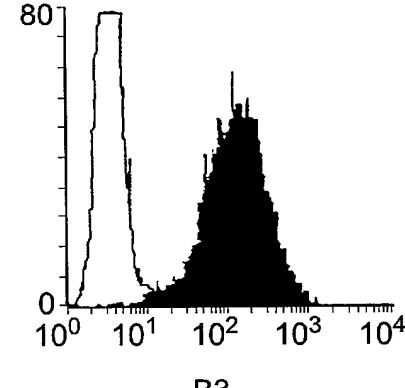


FIG. 9H

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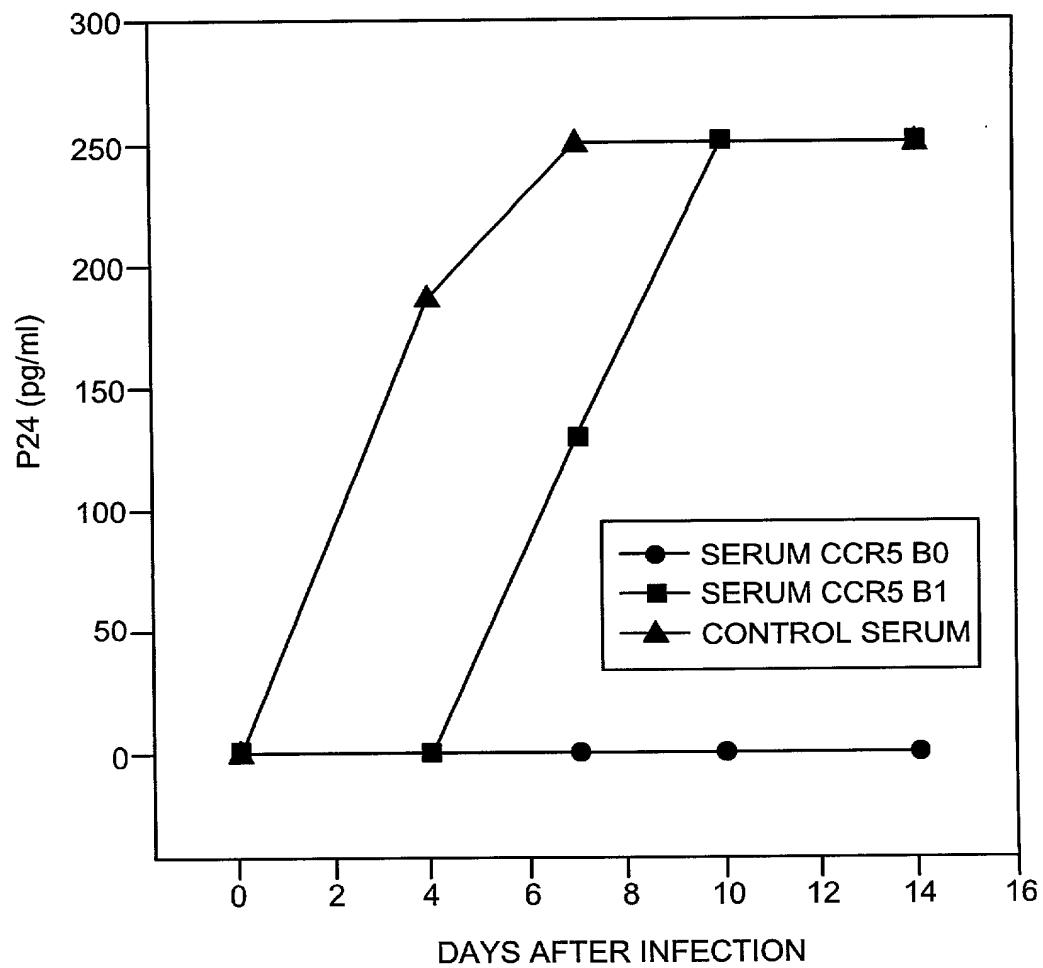


FIG. 10